

What is claimed is:

1. A telephone terminal having a function of telephone communication, comprising:

a communication recording unit that records the telephone communication as communication data;

an interruption controller that controls the communication recording unit to interrupt and to restart recording the telephone communication, the communication recording unit indexing a position, in the communication data, corresponding to the interruption of recording; and

a replaying unit that replays the telephone communication as recorded based on the communication data, the replaying unit notifying that the recording was interrupted at the indexed position.

2. The telephone terminal according to claim 1,

wherein the interruption controller controls the communication recording unit to stop recording when a first condition is satisfied, and

wherein the interruption controller controls the communication recording unit to restart recording when a second condition is satisfied.

3. The telephone terminal according to claim 2, wherein the

first condition is that a user operates the telephone terminal to switch a person subjected to the telephone communication from a first person to a second person according to a call-waiting function when the telephone communication with the first person is being recorded.

4. The telephone terminal according to claim 3, wherein the second condition is that the user operates the telephone terminal to switch a person subjected to the telephone communication from the second person to the first person when the telephone communication with the first person is being interrupted.

5. The telephone terminal according to claim 2, an execution of a predetermined operation when the telephone communication is being recorded satisfies the first condition.

6. The telephone terminal according to claim 5, wherein the predetermined operation includes an operation of a predetermined operable member provided to the telephone terminal.

7. The telephone terminal according to claim 6, wherein an operation of the predetermined operable member when the recording of the telephone communication is being interrupted

satisfies the second condition.

8. The telephone terminal according to claim 5, wherein the predetermined operation is an operation to hold the telephone communication.

9. The telephone terminal according to claim 8, wherein the operation to release the holding condition of the telephone communication satisfies the second condition.

10. The telephone terminal according to claim 2, an execution of a predetermined operation when the telephone communication is being interrupted satisfies the second condition.

11. The telephone terminal according to claim 10, wherein the predetermined operation includes an operation of a predetermined operable member provided to the telephone terminal.

12. The telephone terminal according to claim 1, wherein the interruption controller is capable of controlling the communication recording unit to interrupt and restart the recording of the telephone communication plurality of times during one telephone call, the communication recording unit indexing a plurality of positions, in the communication data,

respectively corresponding to the plurality of interruptions of recording.

13. The telephone terminal according to claim 1, wherein the telephone communication recording unit indexes the interrupted position by inserting predetermined data at the position of the communication data corresponding to the interruption.

14. The telephone terminal according to claim 13, wherein the interruption controller is capable of measuring a duration of the interruption of the recording of the telephone communication, the duration of the interruption being added to the predetermined data.

15. The telephone terminal according to claim 14, wherein the replaying unit notifies the duration of the interruption in accordance with the predetermined data.

16. The telephone terminal according to claim 15, wherein the replaying unit notifies the duration as a voice message.

17. The telephone terminal according to claim 14, wherein the replaying unit executes different operations based on the duration of the interruption.

18. The telephone terminal according to claim 17, wherein the replaying unit notifies the duration only when the duration is longer than a predetermined period.

19. The telephone terminal according to claim 17, wherein the replaying unit does not notify the duration when the duration is equal to a predetermined period or shorter.

20. The telephone terminal according to claim 13, wherein a quantity of the predetermined data is less than a quantity of data which would be generated if the communication data is kept recorded during a duration of the interruption.

21. The telephone terminal according to claim 13, wherein the predetermined data includes voice data representing a predetermined message.

22. The telephone terminal according to claim 13, wherein the interruption controller is capable of measuring a duration of the interruption of the recording of the telephone communication, the predetermined message including a vocalized duration of the interruption.

23. The telephone terminal according to claim 13, wherein the predetermined data includes silent data.

24. The telephone terminal according to claim 13, wherein the predetermined data includes audio data representing a predetermined audio sound.

25. The telephone terminal according to claim 1, wherein the replaying unit outputs a predetermined sound at the indexed position of the communication data.

26. The telephone terminal according to claim 1, wherein the replaying unit outputs a predetermined message at the indexed position of the communication data.

27. The telephone terminal according to claim 1, further comprising a data processor that applies a fade-out effect to part of the communication data immediately before the indexed position.

28. The telephone terminal according to claim 1, further comprising a data processor that applies a fade-in effect to part of the communication data immediately after the indexed position.

29. The telephone terminal according to claim 1, wherein the telephone communication recording unit starts recording the

telephone communication in response to a predetermined operation by a user.

30. The telephone terminal according to claim 29, wherein the predetermined operation is an operation of a predetermined operable member provided to the telephone terminal.

31. The telephone terminal according to claim 29, wherein the predetermined operation is an off-hook operation.

32. The telephone terminal according to claim 1, wherein the telephone communication recording unit finishes recording the telephone communication in response to a predetermined operation by a user.

33. The telephone terminal according to claim 32, wherein the predetermined operation is an on-hook operation.

34. A telephone terminal having a function of telephone communication, comprising:

- a communication recording unit that records the telephone communication as communication data;

- an interruption controller that controls the communication recording unit to interrupt and to restart recording the telephone communication; the communication

recording unit indexing a position of the communication data corresponding to the interruption of recording;

a data controller that controls the communication recording unit to apply a predetermined operation to the communication data in accordance with the indexed position; and

a replaying unit that replays the telephone communication data.

35. The telephone terminal according to claim 34, wherein the predetermined operation includes inserting predetermined data at the indexed position.

36. The telephone terminal according to claim 35, wherein the predetermined data includes audio data.

37. The telephone terminal according to claim 36, wherein the audio data represents an audio signal of a predetermined silent period.

38. The telephone terminal according to claim 36, wherein the audio data represents an audio message.

39. The telephone terminal according to claim 34, wherein the predetermined operation includes modification of the communication data at a portion adjacent to the indexed

position.

40. The telephone terminal according to claim 39, wherein the modification includes a modification of the communication data at a portion before the indexed position to exhibit a fade-out effect when replayed.

41. telephone terminal according to claim 39, wherein the modification includes a modification of the communication data at a portion after the indexed position to exhibit a fade-in effect when replayed.

42. A telephone terminal having a function of telephone communication, comprising:

- a recording system that records various data;

- an audio output system that outputs various audio sounds;

- a recording control system that controls the recording system to record an audio signal of the telephone communication by a user with a first person as first communication data during a period from a predetermined operation by the user till a predetermined termination condition is satisfied;

- a replay control system that controls the audio output system to output the first communication data recorded by the recording system as a voice when operated by the user; and

- a communication holding system that holds, in response

to an operation by the user, the telephone communication of the user with the first person;

wherein the recording system interrupts the recording of the first communication data during a period, after the recording system was controlled by the recording control system to start recording the first communication data and when the telephone communication with the first person is held by the communication holding system,

wherein the replay control system that controls the audio output system to output: part of the communication data recorded by the communication recording system and before a position where the recording was interrupted by the instruction of the recording control system as a voice; a notification sound that enables the user to recognize that the telephone communication with the first person has been interrupted; and a remainder of the communication data after the recording was restarted.

43. The telephone terminal according to claim 42, wherein the communication holding system holds or restarts, in response to an operation by the user, the telephone communication with the first person.

44. The telephone terminal according to claim 42, wherein the communication holding system holds, in response to an operation by the user, a telephone communication with one of the first

person and a second person and establishes a telephone communication with the other of the first person and the second person so that a telephone communication with the first person and the second person is selectively interrupted/established.

45. The telephone terminal according to claim 44,

wherein the recoding control system controls the communication recording system to record the audio signals of the telephone communication with the second person when the telephone communication with the second person is established by the communication holding system, after the operation by the user till the predetermined termination condition is satisfied, as second communication data, the recording of the second communication data by the communication recording system, after the start of the recording and when the telephone communication with the second person is interrupted by the communication interrupting system, and

wherein the replay control system controls the audio output system to output the first communication data and the second communication data recorded by the communication recording system as a voice.

46. The telephone terminal according to claim 42, wherein the replay control system controls the audio output system to output an audio signal having a predetermined frequency as the

notification sound.

47. The telephone terminal according to claim 42, further including a first interruption reckoning system that reckons, under control of the recording control system, an interrupted time from the interruption of the recording of the communication data to the restart thereof;

wherein the recording control system control the recording system to record interruption data indicative of the interrupted time reckoned by the first interruption reckoning system in relation to the communication data when it is recorded by the recording system, and

wherein the replay control system generates a message indicating that the telephone communication with the first person was interrupted for the interruption time which is indicated by the interruption data, and controls the audio output system to output the message as the notification sound.

48. The telephone terminal according to claim 47, further including a second interruption reckoning system that reckons, under control of the recording control system, an interrupted time from the interruption of the recording of the communication data to the restart thereof,

wherein the recording control system control the recording system to record interruption data indicative of the

interrupted time reckoned by the second interruption reckoning system in relation to the communication data when it is recorded by the recording system, and

wherein the replay control system controls the audio output system to output the notification sound only when the interrupted time indicated by the interruption data is equal to or longer than a predetermined period.

49. The telephone terminal according to claim 42, further including a first modifying system that modifies the communication data at a portion corresponding to a predetermined time earlier than a time when the recording is interrupted by the control of the recording control system to the time when the recording is interrupted such that the sound volume of the communication data at the portion fades out.

50. The telephone terminal according to claim 42, further including a second modifying system that modifies the communication data at a portion corresponding to a time when the recording is restarted after interrupted, by the control of the recording control system, to a position corresponding to a predetermined time later than time when the recording is restarted such that the sound volume of the communication data at the portion fades in.

51. A computer program product comprising computer readable instructions that causes a computer to function as telephone terminal having a function of telephone communication, the program product causing the computer to:

record the telephone communication as communication data;

interrupt and restart recording of the telephone communication, a position, in the communication data, corresponding to the interruption of recording being indexed; and

replay the telephone communication as recorded based on the communication data, the interruption of recording being notified based on indexing.

52. A computer program product comprising computer readable instructions that causes a computer to function as telephone terminal having a function of telephone communication, the program product causing the computer to:

record the telephone communication as communication data;

interrupt and restart recording of the telephone communication, the communication recording unit indexing a position of the communication data corresponding to the interruption of recording;

apply a predetermined operation to the communication data

in accordance with the indexed position; and
replay the telephone communication data.